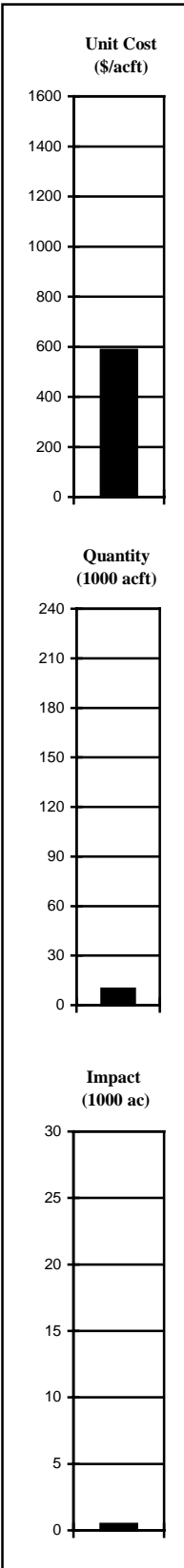


SOUTH CENTRAL TEXAS REGION WATER SUPPLY OPTIONS
OPTION DATA SHEET
August 2000



OPTION NUMBER: SCTN-10a
OPTION NAME: Off-Channel Local Storage
 Guadalupe River near Victoria

OPTION DESCRIPTION: *One method of developing surface water supplies is to construct storage reservoirs off-channel, but near to major streams, with diversion facilities in the streams. Such facilities may be operated to divert streamflows (when they are available) into the off-channel reservoir for storage so that they may be withdrawn and used, as needed, during periods when no streamflows are available for direct diversion and use. Off-channel local storage has been investigated for three locations in the South Central Texas Region, including the Guadalupe River near Victoria.*

TIME NEEDED TO IMPLEMENT: 1-5 yr. 5-15 yr. > 15 yr.

<i>COST, QUANTITY OF WATER, AND LAND IMPACTED</i>			
UNIT COST OF WATER:	\$ 587	per acft ¹	Treated Water Delivered
QUANTITY OF WATER:	10,000	acft/yr ²	Reliability < 100%
LAND IMPACTED:	481	acres ³	

<i>POSITION RELATIVE TO ALL OPTIONS</i>		
UNIT COST OF WATER:	of	(1=lowest unit)
QUANTITY OF WATER:	of	(1=highest volume)
LAND IMPACTED:	of	(1=least acreage)

FACTORS AFFECTING COST, QUANTITY, AND LAND IMPACTED

¹**COST:** River and off-channel reservoir intakes and pump stations, off-channel reservoirs (gravel pits) and connecting channels, raw water transmission pipelines, and water treatment plant. Cost estimates for local water supply options are variable subject to site-specific conditions.

²**QUANTITY OF WATER:** Water available for diversion under existing rights. Assumed Project Supply of 10,000 acft/yr is available 98 percent of the time, so only occasional reliance on alternative source(s) of water supply will be necessary.

³**LAND IMPACTED:** Off-channel reservoirs (gravel pits), pipeline right-of-way, and water treatment plant site.

ENVIRONMENTAL ISSUES: Limited impacts on 0.5 acres of forested area.

SIGNIFICANT ISSUES AFFECTING FEASIBILITY: TNRCC water right amendment authorizing additional storage.

OTHER WATER SUPPLY OPTIONS DIRECTLY AFFECTED: None.